

ABSTRACT OF THE DISCLOSURE

An adaptive equalizer capable of reducing an amount of calculation necessary for signal processing to such a degree that the accuracy of adaptive processing does not deteriorate and thereby reducing power consumption. When the transmission path is in a situation in which the influence of fading is small judging from the previous reception performance, a transmission path situation decision section (106) generates a control signal which causes a correlation window size control section (105) to change a correlation window size, generates a control signal preventing a matrix operator (103) from performing a calculation operation and generates a control signal which causes a selector (104) to select the output of a first correlator (101). As a result, it is possible to reduce the amount of calculation when the situation of the transmission path is relatively good.